

Title (en)

Force sensor, temperature sensor and temperature/force sensor device with lateral electron cold emission

Title (de)

Kraftwandler, Temperaturwandler und Temperatur/Kraft Wandlervorrichtung mit lateraler kalter Elektronenemission

Title (fr)

Transducteur de force, transducteur de température et dispositif transducteur température/force avec émission d'électrons froids latéraux

Publication

**EP 0598343 B1 20000301 (EN)**

Application

**EP 93118292 A 19931111**

Priority

- JP 1996593 A 19930208
- JP 16526993 A 19930705
- JP 30992192 A 19921119

Abstract (en)

[origin: EP0598343A2] A force sensor comprises a substrate having a movable unit which is displaceable in response to one of an applied force and acceleration; an electron emission unit having a cathode for emitting electrons in accordance with an applied potential; an electron absorption unit having an anode for capturing electrons emitted from the cathode, the electron emission unit and the electron absorption unit being formed on a surface of the substrate; and a control unit for, on the basis of the displacement of the movable unit, controlling the electron capturing efficiency of the anode with respect to electrons emitted from the cathode. <IMAGE>

IPC 1-7

**G01L 1/00**; **G01L 11/00**; **G01D 5/48**; **G01P 15/08**

IPC 8 full level

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CPC (source: EP KR US)

**G01D 5/48** (2013.01 - EP US); **G01L 1/00** (2013.01 - KR); **G01L 1/005** (2013.01 - EP US); **G01L 11/00** (2013.01 - EP US); **G01P 15/0894** (2013.01 - EP US); **H01L 2224/45144** (2013.01 - EP US); **H01L 2224/48091** (2013.01 - EP US); **H01L 2924/12032** (2013.01 - EP US); **H01L 2924/181** (2013.01 - EP US); **H01L 2924/3025** (2013.01 - EP US)

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DOCDB simple family (application)

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